	Application No.	Applicant(s)
Notice of Allowability	10/697,662	MANRIQUE
	Examiner	Art Unit
	Russell Frejd	2128
The MAILING DATE of this communication apportunity and the second sec	ears on the cover sheet with the c (OR REMAINS) CLOSED in this ap) or other appropriate communication IGHTS. This application is subject t 3 and MPEP 1308.	plication. If not included will be mailed in due course. THIS
2. X The allowed claim(s) is/are <u>1-72</u> .		
3. Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN.	e been received. e been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1		
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	 5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amendr 8. ☒ Examiner's Stateme 9. ☐ Other 	(PTO-413), te
		RUSSELL FREJID RUSSELL FREJID

PRIMARY EXAMINER

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Allowance of Application # 10/697,662

1. The following communication is in response to Applicant's amendment received 20-September-2006, in reply to the Office Action of 24-August-2006. Claims 1-72 are pending.

Reasons for Allowance

- 2. The following is an Examiner's Statement of Reasons for the indication of allowable subject matter.
- 2.1 The instant application is directed to a non-obvious improvement over the information described in the prior art, the most relevant of the prior art of record being the article authored by Bangtsson et al., entitled *Shape Optimization of an Acoustic Hom*, which discloses a method for optimally designing the shape of an acoustic horn that provides an impedance matching between a waveguide and the surrounding air within a given design frequency range, wherein a mathematical model is used to describe the radiation impedance of the horn, as well as the effects associated with modal conversion.
- 2.2 The improvement of the present application comprises, in various embodiments, a method for creating a waveguide by establishing a design metric based upon acoustic impedance, setting initial design values for the waveguide as divided into a plurality of sections, and creating the waveguide based upon modifications made to the initial design values in accordance with the design metric.
- 2.3 These patentable distinctions are included in various embodiments in each of the independent claims, nos. 1, 18, 32, 38, 44, and 61. For at least these reasons, the art of record,

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either individually or in combination, fails to teach, suggest, or render obvious the useful, concrete and tangible <method for creating a waveguide> having the corresponding structure which is disclosed in the specification and equivalents thereof at least at page 12, line 2 through page 38, line 14, and Figures 1-20. In view of the foregoing, the claims of the present application are found to be patentable over the prior art.

Response Guidelines

3. Any comments considered necessary by applicant MUST be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should clearly be labeled "Comments on Statement of Reasons for Allowance".

3.1 Any response to the Examiner in regard to this allowance should be

directed to: Russell Frejd, telephone number (571) 272-3779, Monday-Friday

> from 0530 to 1400 ET, or the examiner's supervisor, Kamini Shah, telephone number (571) 272-2279. Inquires of a general nature or relating to the status of this application should be directed to the TC2100

Group Receptionist (571) 272-2100.

mailed to: Commissioner of Patents and Trademarks

P.O. Box 1450, Alexandria, VA 22313-1450

or faxed to: (571) 273-8300

Hand-delivered responses should be brought to the Customer Service Window, Randolph Building, 401

Dulany Street, Alexandria, VA, 22314.

Date: 1-October-2006

RUSSELL FREJD PRIMARY EXAMINER